

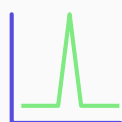
640

Single frequency CW DPSS laser



Our 640 laser delivers unrivalled continuous-wave single frequency performance at market-leading output powers from a small footprint — making it suitable for integration with existing systems and a wide range of applications. The 640 provides outstanding beam characteristics, high output stability, extremely low noise, and a versatile software package.

Key features



Ultra-narrow linewidth
 ≤ 0.5 MHz



High power stability
 $\leq 2.0\%$ over 8 hours



High spectral stability
 ± 1 pm over 8 hours



Excellent beam quality

Applications

Raman spectroscopy, Brillouin scattering, holography, flow cytometry, optical manipulation, semiconductor, imaging, metrology, interferometry ... and more

Specifications	
Output beam parameters:	
Output power	500, 750, or 1000 mW*
Wavelength	640 nm
Spectral bandwidth	≤ 0.5 MHz
Spatial mode	TEM ₀₀
Spectral stability	± 1.0 pm (over 8 hour operation)
Coherence length	> 100 m
Output power stability	$\leq 2.0\%$ (over 8 hour operation)
Output power noise	$\leq 0.1\%$ RMS (10 Hz – 10 MHz)
Beam divergence	≤ 1 mrad, diffraction limited
Beam diameter at output aperture	0.8 – 1.2 mm
Beam pointing stability	≤ 5 μ rad/°C
Polarisation ratio	$\geq 100:1$, vertical
Integration features:	
Plug-in USB connectivity	Combined heatsink
Versatile control software	Remote diagnostic support
Laser head dimensions:	
L x W x H	210 x 100 x 100 mm
Beam height	65 mm
Environmental conditions:	
Ambient temperature range	18 – 30 °C
Laser head interface stability	± 1.5 °C
Storage	0 – 50 °C
Humidity	5 – 95%, non-condensing
Optional accessories:	
Heatsink	Fan-assisted
	Water-cooled with thermoelectric chiller
External power control module	0 – 100%, continuous
Tuning range, mode-hop free	25 – 50 GHz
Low power alignment beam mode	

* Other output powers available on request

Contact

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Designed &
manufactured
in the UK



AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
MAX. POWER: 1000 mW
(IEC 60825-1)